

WHAT IS CLAIMED IS:

1. A method of making a Bowman-Birk Inhibitor concentrate comprising the steps of:
 - providing acid extracted solubles from a defatted soybean material;
 - mixing acetone with the acid extracted solubles to form a precipitate;
 - separating the precipitate from the mixture of acetone and acid extracted solubles;
 - diluting the separated precipitate with water to form an aqueous solution; and
 - ultrafiltering the aqueous solution to obtain a retentate.
2. The method of claim 1 wherein prior to said step of diluting the separated precipitate with water to form an aqueous solution said separated precipitate is washed with acetone by slurring said separated precipitate in acetone and subsequently removing said acetone from said precipitate.
3. The method of claim 1 wherein said step of mixing acetone with the acid extracted solubles includes agitating the acetone-precipitate mixture and allowing the acetone-precipitate mixture to settle.
4. The method of claim 1 further comprising the step of vacuum filtering the precipitate.
5. The method of claim 1 wherein the defatted soybean material comprises defatted soybean flakes or defatted soybean flour.
6. The method of claim 1 wherein said step of providing acid extracted solubles includes slurring the defatted soybean material with water to form a slurry.
7. The method of claim 6 wherein said step of providing acid extracted solubles includes adjusting the pH of the slurry to 4.0 to 6.5 using hydrochloric acid.
8. The method of claim 7 wherein said step of providing acid extracted solubles includes agitating the slurry for about 1 hour.

9. The method of claim 7 wherein said step of providing acid extracted solubles includes separating the acid extracted solubles from the slurry.

10. The method of claim 1 wherein the amount of acetone mixed with the acid extracted solubles is between half and four times the amount by weight of the acid extracted solubles.

11. The method of claim 10 wherein the amount of acetone mixed with the acid extracted solubles is 2 times the amount by weight of the acid extracted solubles.

12. The method of claim 2 wherein the amount of acetone mixed with the acid extracted solubles is between half and two times the amount by weight of the acid extracted solubles.

13. The method of claim 12, wherein the amount of acetone used to wash the precipitate is half the amount mixed with the acid extracted solubles.

14. The method of claim 1 further comprising the step of drying the retentate to obtain the Bowman-Birk Inhibitor concentrate.

15. A pharmaceutical composition or dietary supplement comprising the product made in accordance with the method of claim 1.

16. A pharmaceutical composition or dietary supplement comprising the product made in accordance with the method of claim 7.

17. A Bowman-Birk Inhibitor concentrate comprising:
at least 50% protein content by weight of dry matter; and
a chymotrypsin inhibitor activity level of at least 200 milligrams of
chymotrypsin inhibited per gram of dry matter of product.

18. A pharmaceutical composition or dietary supplement comprising the product made in accordance with the method of claim 17.

19. A soy protein product comprising:
at least 50% protein content by weight of dry matter; and
a chymotrypsin inhibitor activity level of at least 200 milligrams of
chymotrypsin inhibited per gram of dry matter of product.
20. A pharmaceutical composition or dietary supplement comprising the product
made in accordance with the method of claim 19.